Service Manual

Mini Cassette

Stereo Cassette Player

RQ-P35



(K)····· Black Type

Area

Suffix for Model No.	Areas	Colour
[E]	Europe	(K)
[E1]	Europe	



SPECIFICATIONS

General:

Power Requirement: Battery; 3V (Two "AA" size, R6/LR6 batteries)

Power Output: 40mW (20mWx2)···RMS (max.)

Output: Headphones; 24Ω , $\phi 3.5$

Dimensions: $86.7(W) \times 113.1(H) \times 31.3(D)$ mm

Weight: 1309 without batteries

Tape Deck Section:

Frequency Response: 60~16,000Hz (Normal, CrO2/Metal)

Tape Speed: 4.8cm/s

Program Time: 1 hour with C-60 cassette tape
Track System: 4-track, 2-channel, stereo playback

1. Weights and dimensions shown are approximate.

2. Design and specifications are subject to change without notice.

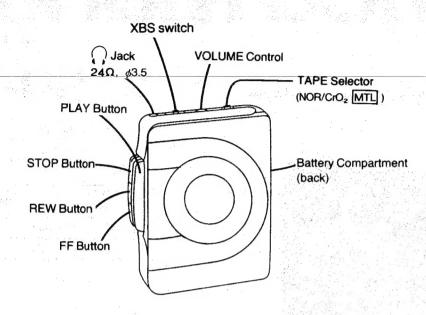
△ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

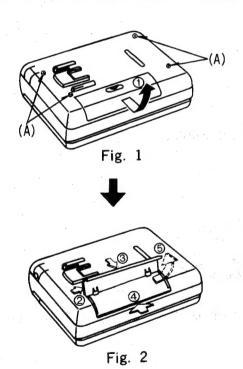
Panasonic[®]

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■LOCATION OF CONTROLS

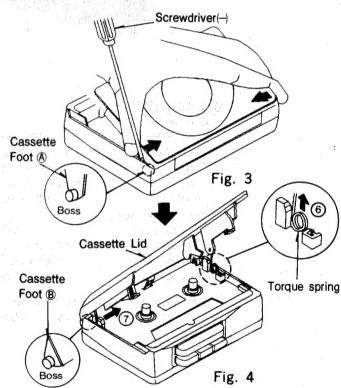


■ DISASSEMBLY INSTRUCTIONS



● Removal of the battery cover and Rear Cabinet

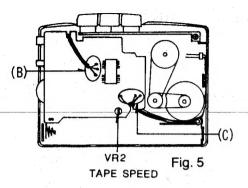
- 1. Open the battery cover in the direction of arrow(1).
- 2. Remove the battery cover in the direction of arrow (2) and (3).
- 3. Remove the screws (A) (2×10) mm $\times4$.
- 4. Remove the rear cabint in the direction of arrow (4. & (5).

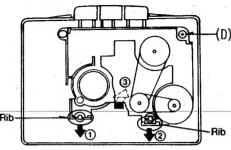


● How to Removal of the Cassette Lid

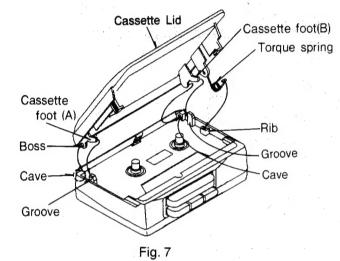
Note: Be careful not to break cassette foots (A) and (B) when removing the cassette lid.

- Strongly press two sides of the cassette lid, then it was bent a little.
- With a (-) screwdriver as shown in Fig 3, and pull out the right-side of the cassette lid.
- 3. Remove the torque spring (6) in the direction of arrow.
- 4. By the direction of 7, remove the cassette foot.





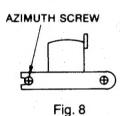


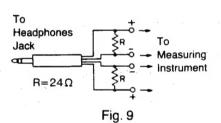


- Removal of the Circuit Board (Fig. 5)
- 1. Remove the Solder (B) (C) form flexible PC board.
- Removal of the Front Cabinet and Mechanism (Fig. 6)
- 1. Remove the screws (D) (2×6) mm $\times1$.
- 2. Remove the front cabinet & mechanism in the direction of arrow ①, ② and ③.

● How to Replace the Cassette Lid Spring (Fig. 7)

- 1. Enter the cassette foot (A) into the groove of the case body.
- 2. Enter the boss of the cassette foot into the cave.
- 3. To plug the torque spring into the groove of the case body.
- 4. Enter the cassette foot (B) into the groove of the case body.





MEASUREMENT AND ADJUSTMENTS

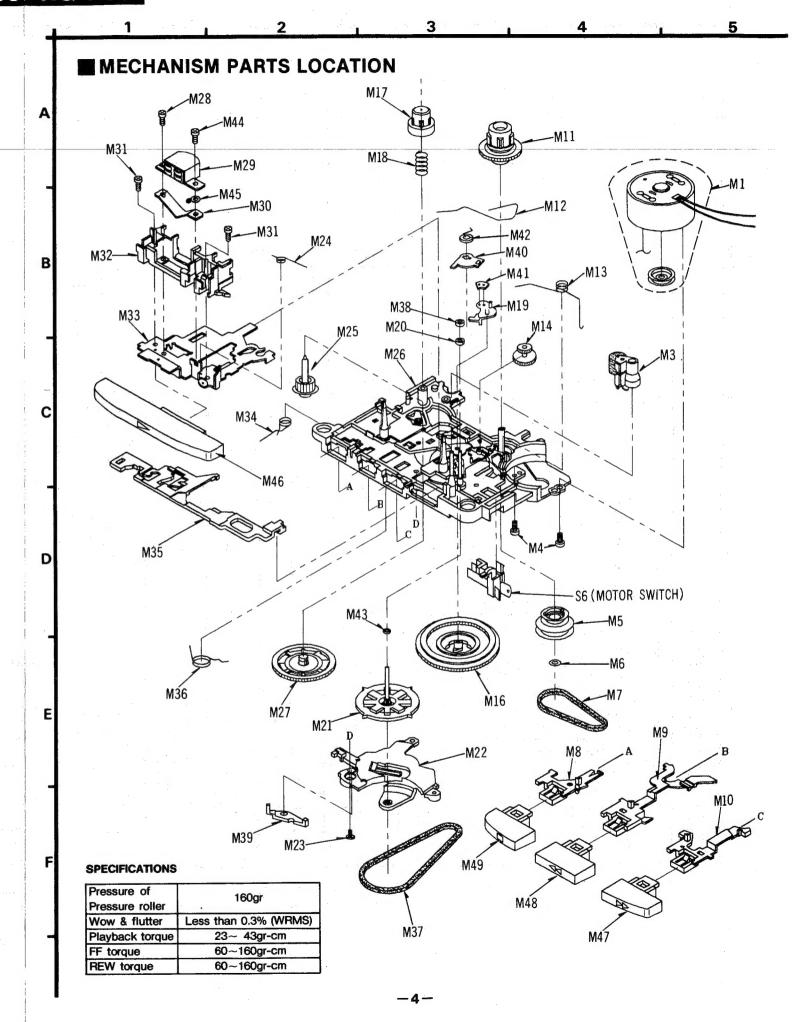
• ALGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

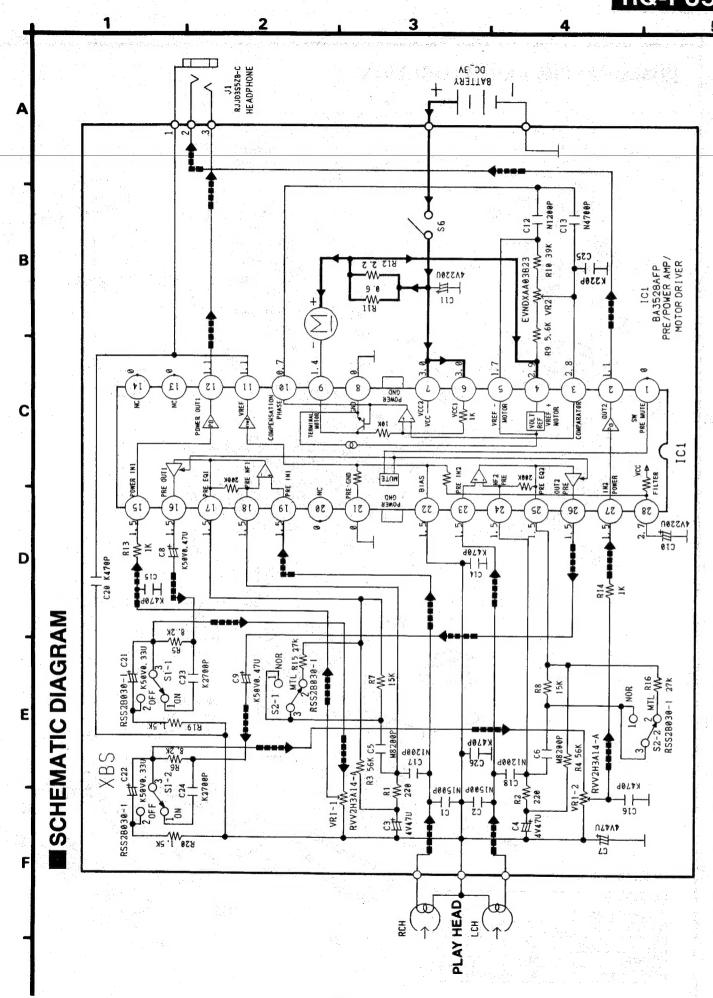
- 1. Set volume control to maximum.
- 2. Set power source voltage to 3V DC.
- 3. Set Tape Selector Switch to normal.
- Output of signal generator should be no higher than necessary to obtain an output reading.
- 5. Make sure heads are clean.
- 6. Make sure capstan and pinch roller are clean.

• TAPE DECK SECTION

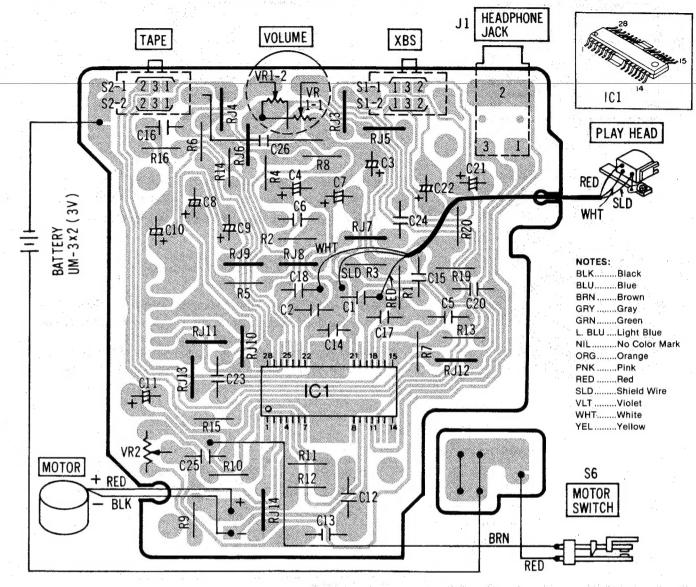
ITEM	INPUT	MEASUREMENT POINT	ADJUSTMENT POINT	PROCEDURE
Azimuth	QZZCFM (8kHz, –20dB)	Headphones Jack (24Ω)	Azimuth adjustment screw (Refer to Fig.8)	Adjust the azimuth adjustment screw during repeated forward and reverse playback to obtain the maximum head azimuth alignment with both channels equal. Then screw-lock the adjustment in place.
Tape speed	QZZCWAT (3kHz, –10 dB)	shown in Fig. 10 and then connect the lead wires of the plug to the measuring instrument.	VR2 (Refer to Fig. 5)	Playback the central part of the tape and adjust VR2 so that the tape speed is as follows. 3000±60Hz (Forward & Reverse)



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ECIRCUIT BOARD AND WIRING CONNECTION DIAGRAM



Notes:

- \$1-1, 1-2: XBS switch in "ON" position. (1···ON, 2···OFF)
- \$2-1 2-2: Tape Selector Switch in "CrO₂/METAL" Position.
- (1···Normal, 2···CrO₂/Metal)

 S6: Motor Switch in "OFF" Position.
- VR1-1: Volume Control VR. (Rch)
- VR1-2: Volume Control VR. (Lch)
- VR2: Tape Speed adjustment VR.
- All voltage values shown in circuity are under no signal condition and playback mode with volume control at maximum position.
- Battery current: Volume minimum output----100mA
 Volume Maximum output----160mA
 (315Hz 0dB tape QZZCFM playback)
- → +B Voltage Line.
- Playback Signal.
- ◆ This schematic diagram may be modified at any time with the development of new technology.

REPLACEMENT PARTS LIST

Notes:

The (M) Indicates parts that are supplied MESA

Ref No.	Part No.	Part Name & Description
INTEGRAT	ED CIRCUIT	
101	BA3528AFP	I.C.Play Speed (M)
VARIABLE	RESISTOR	
VR1 VR2	RVV2H3A14-A EVNDXAA03B23	V.R.Volume Control (M) V.R.Notor Speed (M)
SWITCHES		
S1 S2 S6	RSS2B030-I RSS2B030-I RFA114ZA	SW,XBS (M) SW,NOR/MTL (M) SW,Notor (M)
JACK	The second secon	
J1	RJJD3S5ZB-C	Headphones Jack (M)

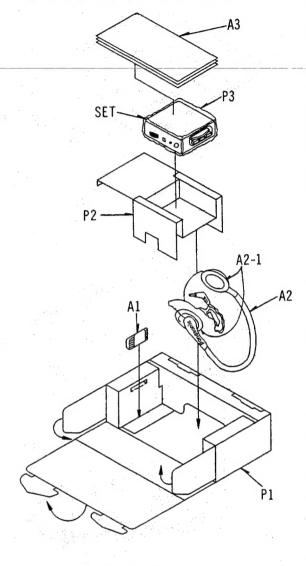
REPLACEMENT PARTS LIST

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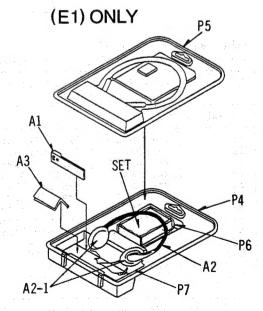
The (M) In	idicates parts	that are supplied MESA
Ref No.	Part No.	Part Name & Description
MECHANIC	AL PARTS	
M134567890123467890123456789012344678MM1123467890123345678901423445678901444345678901444444444444444444444444444444444444	RFKPQV85P RFR772A RFF2798ZA RFF2798ZA RFF2798ZA RFF124ZA RFF1067ZA RFF11067ZA RFF11069ZA RFF11069ZA RFF1103ZA RFF1103ZA RFF1103ZA RFF1103ZA RFF1103ZA RFF1103ZA RFF1103ZA RFF1174ZA RFF1174ZA RFF1174ZA RFF1176ZA RFF117	Motor Ass'y (M) Pinch Roller Arm Ass'y (M) Tapping Screw (M) Trans Pulley (M) Lumilar Washer (M) M. Belt (M) Stop Lever (M) FF Lever (M) Take Up Reel Ass'y (M) Sensor Spring (M) HP Spring (M) T. Up. Gear (M) Cam Gear (M) Rwd Reel Hub (M) B. T Spring (M) Auto Lever (M) Flywheel Ass'y (M) Flywheel Ass'y (M) FL Bracket (M) Washer (M) PR Spring (M) Rwd Hub Gear (M) Chassis Ass'y (M) Rwd Gear (M) Screw (M) P. Head (M) Head SPR-PL (M) Tapping Screw (M) Tapping Screw (M) Tapping Screw (M) FR Spring (M) Head Panel (M) Stop Spring (M) Lock Plate (M) FR Spring (M) FL Belt (M) Washer (M) FS Stopper (M) A Push Arm (M) Blance Plate (M) Washer (M) Screw (M) LUG Plate (M) Button, FF (M) Button, FF (M) Button, REW (M) Button, REW (M)

■ PACKING (E) ONLY

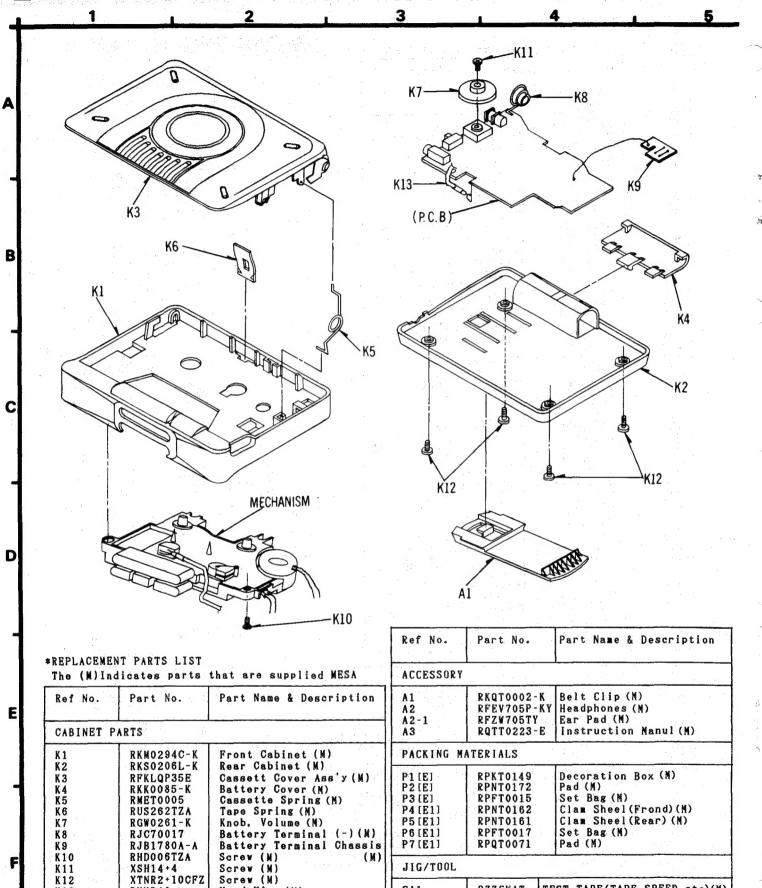


Ref No.	Part No.	Values
RESISTOR	3	
R1.2	ERDS2TJ221T	(M)
R3.4	ERDS2TJ563T	(M)
R5.6	ERDS2TJ822T	(N)
R7.8	ERDS2TJ223T	(M)
R9	ERDS2TJ392T	(M)
R10	ERDS2TJ393T	(M)
R11	RRSA39JR60TH	(M)
R12	ERDS2TJ2R2T	(M)
R13.14	ERDS2TJ102T	(M)
R15.16	ERDS2TJ273T	(M)
R19,20	ERDS2TJ152T	(M)
JUMPER		
RJ1~14	Z-RWDHT01	(N)

Ref No.	Part No.	Values
CAPACITO	RS	
C1,2	ECBT1C152NR5	(N)
C3,4,7	ECEAOGKA470I	(M)
C5, 8	ECBT1C822KS5	(M)
C8.9	ECEA1HKAR47I	(M)
C10.11	ECEAOGK221IV	(N)
C12,17,	ECBT1H122NR5	(N)
C13	ECBT1C472NR5	(N)
C14, 15,	ECBT1H471KB5	(M)
16,20,		
26		
C21,22	ECEA1HKSR33	(M)
C23,24	ECBT1C272NR5	
C25	ECBT1H221KB5	(M)



CABINET PARTS LIST



Notes: The reference number SA erpresent the grease and tool used for this unit.

Head Wire (M)

RHD006TZA

XTNR2+10CFZ

XSH14+4

RWWP40

K12 K13

TEST TAPE (TAPE SPEED etc)(M)

TEST TAPE (AZINUTH/FREQ) (M)

(M)

JIG/TOOL

QZZCWAT

QZZCFM

SAI

SA2